



Current and Recent Science at the Flower Garden Banks NMS Updated January 10, 2007



ON THE CORAL CAP

CORAL:

1. Coral diseases at the FGBNMS – Eric Borneman, University of Houston
2. Coral spawning and reproduction - Peter Vize, University of Calgary
3. Coral degradation: environmental molecular diagnostics - Cheryl Woodley, NCCOS
4. Coral genetics – (Agaricia and Porites) - Joel Stake, University of Louisiana at Lafayette
5. Metal toxicology of FGBNMS corals – Chuck Holmes, USGS
6. Baseline Coral Health Assessment in the Flower Garden Banks National Marine Sanctuary – Kim Ritchie, Mote Marine Laboratory
7. Effects of stoplight parrotfish (*Sparisoma viride*) predation on the survival of star and brain coral populations and relationships with herbivore population abundance and fish pressure – Andy Bruckner, NOAA
8. Coral Symbiosis as indicators of connectivity among reefs in the North Caribbean? – Todd Lajeunesse and Robin Smith, Florida International University
9. SECORE – Sexual Coral Reproduction and Propagation– Eric Borneman, University of Houston; Dirk Petersen, Rotterdam Zoo, Netherlands
10. Genetics of Acropora at the FGBNMS – Iliana Baums, RSMAS, University of Miami
11. White Plague Coral Disease at the FGBNMS – Bob Jonas and Geoff Cook, George Mason University
12. White Plague Coral Disease at the FGBNMS – Beth Zimmer, Florida International University
13. Phylogeography of the Western Atlantic Corals *Montastraea cavernosa* and *Favia fragum* – Gretchen Goodbody, Harvard University
14. Ecology and evolution of reef color diversity and fluorescence – Mikhail Matz, University of Texas/University of Florida

CRITTERS:

15. Occurrence of Elasmobranchs at the FGBNMS – FGBNMS (continuation of work by Jeff Childs)
16. Manta ray census and individual identification – FGBNMS (continuation of work by Jeff Childs); Rachel Graham, Wildlife Conservation Society
17. Satellite and radio tracking of loggerhead sea turtles at the FGBNMS – Emma Hickerson, FGBNMS/Texas A&M University
18. Sea turtles – FGBNMS – persistence of individuals using barnacle patterns as identification – Emma Hickerson, FGBNMS
19. Sponges of the FGBNMS – G.P. Schmahl, FGBNMS
20. Whale sharks – occurrence of individuals using spot patterns – Rachel Graham, Wildlife Conservation Society
21. Satellite tagging of whale sharks – Rachel Graham, Wildlife Conservation Society
22. Acoustic tagging of elasmobranchs – Rachel Graham, Wildlife Conservation Society
23. Fish surveys – Reef Environment Education Foundation (REEF)
24. Brittlestar reproduction – Peter Vize, University of Calgary
25. Fish cleaning behavior – Mary Wicksten, Texas A&M University
26. Crustaceans of the FGBNMS – Mary Wicksten, Texas A&M University

27. Cephalopods of the FGBNMS, specifically association of squid aggregations and coral spawning events – Jennifer DeBose, University of California - Davis
28. SEAMAP – Southeast Area Monitoring and Assessment Program - Assessment of fish populations on reefs and banks in the Gulf of Mexico – Kevin Rademacher, NMFS – Pascagoula
29. Queen conch (*Strombus gigas*) at the FGBNMS – Craig Burnside, Bainbridge College
30. Mollusk Diversity at the FGBNMS – Fabio Moretzsohn, Texas A&M University – Corpus Christi
31. Queen Conch Genetics – David Hicks, University of Texas Medical Branch - Port Aransas, Craig Burnside, Bainbridge College
32. Larval input and trophic dynamics of the ichthyofauna of the FGBNMS – Les Kaufman, University of Boston
33. Cone snail venom characterization – Jason Biggs, University of Utah
34. Genetics of the spiny lobster, *Panulirus argus* – John Hunt, Florida Wildlife and Fisheries Service
35. Planktonic Foraminiferan Genetics – Eric Schall, Texas A&M University

ALGAE:

36. Algae biodiversity and genetics – Suzanne Fredericq, Fred Gurgel, University of Louisiana at Lafayette
37. Examination of Flower Garden reef for toxic benthic dinoflagellates – Tracy Villareal, University of Texas Marine Science Institute

MONITORING

38. Stetson Bank Long Term Monitoring – FGBNMS
39. East and West Bank Long Term Monitoring – under contract to PBS&J, Geo-Marine, Inc., and Dauphin Island Sea Lab. (Precht, Aronson, Deslarzes, Kaufman) Contract administered by FGBNMS and MMS.
40. Fish and Benthic Habitat characterization of the FGBNMS – Chris Caldow, NCCOS Center for Coastal Monitoring and Assessment

BELOW THE CORAL CAP

41. Characterization and assessment of deepwater habitat of the FGBNMS – FGBNMS
42. Characterization and assessment of topographic features of the NW Gulf of Mexico – FGBNMS
43. Gorgonians and antipatharians of the FGBNMS and NW Gulf of Mexico – FGBNMS
44. Deepwater coral reef communities of the NW Gulf of Mexico - FGBNMS
45. Taphonomy – Shelf and slope experimental taphonomy initiative – Eric Powell, Karla Hubbard, Oberlin College
46. Genetics of select Antipatharians – Carlos Umana and Juan Sanchez, Universidad de los Andes; Mercer Brugler, University of Louisiana at Lafayette
47. Characterization of Antipatharians – Dennis Opresko. Smithsonian Institute
48. Octocorals of the FGBNMS region – Peter Etnoyer, Texas A&M University - Corpus Christi

GEOLOGY

49. High resolution multibeam bathymetry of the FGBNMS and NW Gulf of Mexico – FGBNMS, Jim Gardner, USGS/University of New Hampshire, NOAA
50. Paleoclimatology using cone snails – Ethan Grossman, Texas A&M University
51. Coral paleoclimatology – Niall Slowey and Amy Wagner, Texas A&M University
52. Superficial sediments of the FGBNMS – Kathy Scanlon, USGS
53. Coral cap coring – FGBNMS, Don Hickey and Chris Reichman, USGS

OCEANOGRAPHY

54. Oceanic Characterization and Monitoring of the FGBNMS - Rick Stumpf, NCCOS

SOCIOECONOMIC

55. Demographics, attitudes, management preferences and economic impacts of sport divers – Bob Ditton,
Texas A&M University

Government Acronyms:

FGBNMS – Flower Garden Banks National Marine Sanctuary

NCCOS – National Centers for Coastal and Ocean Science

NOAA – National Oceanic and Atmospheric Administration

USGS – U.S. Geological Survey

NMFS – National Marine Fisheries Service

MMS – Minerals Management Service

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